



Features

- Connectivity with dongle.
- Inbuilt isolation transformer.
- DSP based controller & design.
- Export excess PV power to grid.
- Bidirectional inverter device.
- User friendly display.
- Inverter Efficiency up to 90%.
- Emergency Power off button.
- Inbuilt zero export device.
- Without battery operational*.

3Phase Models -

10kVA/120V, 15kVA / 180V, 20kVA / 240V,
25kVA / 240V & 30kVA / 360V

TECHNICAL SPECIFICATIONS

Rating(kVA)	10kVA/120V	15kVA/180V	20kVA/240V	25kVA/240V	30kVA/360V
Grid					
Input Wiring	3PH Five Wire (3 PH + N + E)				
Input Neutral Requirement	Yes				
Nominal Voltage	330V To 475V FOR 3PH				
Grid Frequency Sync Range	50 Hz (± 6%)				
Unity Power Factor For Grid Charging	> 0.9				
Operating Condition	Continuous				
Self-consumption	Up To 4%				
Charger Peak Efficiency	Upto 85%				
DG Compatibility	YES (Double Of Inverter Capacity)				
Grid Compatibility	Yes Same As Inverter Capacity				
Input Voltage Distortion Allowed	Less Than 3%				
Grid Charger Capacity	50 % Of kVA Rating				
Solar					
Charger Type	MPPT				
Max PV Connection In KWp	10	15	20	25	30
Max PV Voltage (VOC)	300V	450V	500V	500V	680V
Max I/P Amps Per Channel (Amps)	83	82	83	104	83
No Of MPPT Channel			1		
Panel Reverse Protection	Yes				
Solar Charger conveter Efficiency	Up To 95%				
Battery					
Nominal Battery Voltage (VDC)	120	180	240		360
Battery Buffer Setting	DC Voltage Selectable Through Key Pad				
Grid Charging Current	Settable Through Key Pad				
Temperature Compensated Charging	Yes				
Battery Charging Voltage	Selectable From LCD Display				
Type & No. Of Cells	Lead Acid / VRLA / Ni-cd/ (Lithium Ion)#				
BMS Compatible	Yes				
Battery Less Feature					
MPPT Voltage Range for Batteryless mode	200-250V		300-400V		400-550V
O/P Current Per Phase for Batteryless mode	75% of Max O/P current				
External UPS/Inverter Rating	1KVA with battery #				
Output					
Max O/P Current Per Phase	11.6 Amp	17.4 Amp	23.2 Amp	29 Amp	34.8 Amp

Output Voltage (Inverter Mode)	400V AC \pm 2 %	
Output Frequency (Free Running)	50 Hz \pm 1%	
Output Waveform	Pure Sine Wave	
Peak Inverter Efficiency (Full Load)	Upto 90 %	
Total Harmonic Distortion	Upto 3% At Linear Load	
Overload Capacity	125% For 60sec, 150% For 5 Sec	
Changeover Time (Full Load)	\leq 5mSec	
DC To AC Galvanic Isolation	In Built Isolation Transformer At Inverter Output	
Anti Islanding Function	In Compliance With IEC 621 16	
Auto Bypass Feature	Yes	
Duty	Continuous	
Configuration		
Modes Available	Grid Saving, Battery Backup, Export, Battery Less	
Power Export To Grid	Enable / Disable Option Available	
Power Import From Grid	Enable / Disable Option Available	
Environmental		
Acoustic Noise Level From 1 M	\leq 65 dB	\leq 68 dB
Operating Temperature	0 To 45°C(Dust Free Cooled And Dry Environment)*	
Storage Temperature	-10 Deg C To 55 Deg C	
Relative Humidity	Up To 95 % (Non Condensing)	
Altitude	Upto 1000 Meter	
Physical		
Enclosure Protection Grade	IP 20	
Cooling	Forced Air	
Colour	RAL501 1	
Cable Entry	Bottom	
Parameters Displayed On LCD		
Mains	Voltage, Current, Frequency, KW, kVA, Import KWh , Export KWh, PF	
Inverter	Voltage, Current, Frequency, kVA, Load%	
Output	Voltage, Frequency	
Solar	Solar Voltage , Solar Current, Power(KW), Solar Energy (KWh)	
Battery	Voltage, Current, SOC	
Protections		
Electrical	Circuit Breaker And Fuse	
Alarm	Alarms Are Available For Fault Condition.	
Input	Input Under Voltage, Input Over Voltage, Under / Over Frequency	
Inverter	Output Under Voltage, Output Over Voltage, Overload, Output Short Circuit, Inverter Over Temperature	
Solar	Solar High/Low, MOV, Reverse PV Panel Protection	
Battery	Battery Low , Battery Over	

Connectivity					
Communication	RS 485 or Wi-Fi Dongle				
Protocol	MODBUS RTU				
LCD with Backlight & Tactile Key Pad Interface	Yes				
Standard	BIS IS 16169 : 2014 / IEC 62116 : 2008,IS 16221 (Part 2) : 2015 / IEC 62109-2 : 2011				
Earthing Connection (Ref. Is 3043)	Earth stud AC/DC separate				
Dimensions (In MM) Tentative Dimension					
kVA Rating	10	15	20	25	30
Width (W)	450	450	450	450	600
Depth (D)	800	800	800	900	1000
Height (H)	800	900	900	900	1300
Weight (Kg) APPROX.	170	220	240	250	500
Wi-Fi Based Remote Monitoring	Provided				
1. Specifications are subjected to change without noticed.					
2. Not for Life Support & Mission Critical Application.					

Note : Specification may change without prior notice.

Please follow the installation guidelines to avail standard warranty.

Rating KVA	SOLAR VDC	Input Cable-Copper Flexible Cable	Output Cable-Copper Flexible Cable	Battery Cable-Copper Flexible Cable	DC Solar Cable- Copper Flexible Cable	Body Earthing Cable-Copper Flexible	Input Breaker	Output Breaker	Battery Breaker	Solar Breaker
10kVA	300V	4Cx6 Sq.mm	4Cx6 Sq.mm	1Cx25 Sq. mm	1Cx16 Sq.mm	1Cx 6 Sq.mm	32A, 4Pole	32A, 4Pole	125 A, 4Pole (2 in series for +ve & -ve)	63A, 2Pole
15kVA	450V	4Cx6 Sq.mm	4Cx6 Sq.mm	1Cx25 Sq. mm	1Cx25 Sq.mm	1Cx 6 Sq.mm	32A, 4Pole	32A, 4Pole	125 A, 4Pole (2 in series for +ve & -ve)	100A, 4Pole (2 in series for +ve & -ve)
20kVA	500V	4Cx10 Sq. mm	4Cx10 Sq. mm	1Cx35 Sq. mm	1Cx25 Sq.mm	1Cx10 Sq.mm	50 A, 4Pole	50 A, 4Pole	125 A, 4Pole (2 in series for +ve & -ve)	100A, 4Pole (2 in series for +ve & -ve)
25kVA	500V	4Cx10 Sq. mm	4Cx10 Sq. mm	1Cx50 Sq. mm	1Cx35 Sq.mm	1Cx10 Sq.mm	63 A, 4Pole	63 A, 4Pole	125 A, 4Pole (2 in series for +ve & -ve)	100A, 4Pole (2 in series for +ve & -ve)
30kVA	680V	4Cx16 Sq. mm	4Cx16 Sq. mm	1Cx35 Sq. mm	1Cx25 Sq.mm	1Cx16 Sq.mm	100 A, 4Pole	100 A, 4Pole	125 A, 4Pole (2 in series for +ve & -ve)	100A, 4Pole (2 in series for +ve & -ve)